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ABSTRACT

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GENE THERAPY BY SMALL FRAGMENT
HOMOLOGOUS REPLACEMENT

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A method for gene therapy using small fragment homologous replacement. The method introduces small fragments of exogenous DNA into regions of endogenous genomic DNA virtually homologous to the exogenous DNA. The exogenous DNA fragments contains sequence modification that correct mutations in the endogenous DNA or introduce mutations that alter cellular or an infecting pathogen phenotype.